

CLAIM AMENDMENTS

Claims 1-12, 16 and 17 are currently pending in the application.

Please amend claim 16 for non-statutory purposes as shown below.

This listing of claims 1-17 will replace all prior versions, and listings, of claims in the application:

1. (Previously Amended) A dual energy coupling device, comprising:
a first electric conductor; and
a second electric conductor,
wherein said first electric conductor is operable to simultaneously transfer a magnetic energy and an electric energy across an interface to said second electric conductor in response to a reception of an alternating electric signal.
2. (Previously Amended) The dual energy coupling device of claim 1, wherein:
said first electric conductor has a first spiral configuration; and
said second electric conductor has a second spiral configuration.
3. (Original) The dual energy coupling device of claim 1, wherein:
said first electric conductor and said second electric conductor are symmetrical relative to the interface.
4. (Previously Amended) The dual energy coupling device of claim 1, further comprising:
a first substrate including a first corrugated surface having said first electric conductor formed thereon; and
a second substrate including a second corrugated surface having said second electric conductor formed thereon.
5. (Previously Amended) A dual energy coupling device, comprising:
a first power source operable to provide a first electric signal;

a first electric conductor in electrical communication with said first power source to thereby receive the first electric signal when said first power source is providing the first electric signal; and

a second electric conductor,

wherein said first electric conductor is operable to simultaneously transfer a first magnetic energy and a first electric energy across an interface to said second electric conductor in response to a reception of the first electric signal.

6. (Previously Amended) The dual energy coupling device of claim 5, further comprising:

a load in electrical communication with said second electric conductor,

wherein a current drive signal flows through said second electric conductor and said load in response to a reception of said first magnetic energy by said second electric conductor.

7. (Previously Amended) The dual energy coupling device of claim 5, further comprising:

a second power source operable to provide a second electric signal;

a third electric conductor in electrical communication with said second power source to thereby receive the second electric signal when said second power source is providing the second electric signal; and

a fourth electric conductor,

wherein said third electric conductor is operable to simultaneously provide a second magnetic energy and a second electric energy across the interface to said fourth electric conductor in response to a reception of the second electric signal.

8. (Previously Amended) The dual energy coupling device of claim 7, further comprising:

a load in electrical communication with said fourth electric conductor,

wherein a current drive signal flows through said fourth electric conductor and said load in response to a reception of said second magnetic energy by said fourth electric conductor.

9. (Previously Amended) The dual energy coupling device of claim 7, further comprising:

a third power source operable to provide a current control signal; and

a load operable to be in electrical communication with said third power source in response to a reception of said first electric energy by said second electric conductor and a reception of said second electric energy by said fourth electric conductor to thereby receive the current control signal when said third power source is providing the current control signal.

10. (Previously Amended) The dual energy coupling device of claim 5, wherein:
said first electric conductor has a first spiral configuration; and
said second electric conductor has a second spiral configuration.

11. (Original) The dual energy coupling device of claim 5, wherein:
said first electric conductor and said second electric conductor are symmetrical relative to the interface.

12. (Previously Amended) The dual energy coupling device of claim 5, further comprising:

a first substrate including a first corrugated surface having said first electric conductor formed thereon; and

a second substrate including a second corrugated surface having said second electric conductor formed thereon.

13.-15. (Cancelled)

16. (Currently Amended) A dual energy coupling device, comprising:
a first power source operable to provide a first electric signal;
a first load;
means for inductively coupling said first power source and said first load when said first power source is providing the first electric signal;
a second power source operable to provide a second electric signal;
a second load;
means for inductively coupling said second power source and said second load when said second power source is providing the second electric signal; a third power source;
a third load; and
means for capacitively coupling said third power source and said third load when said first power source and said first load are inductively coupled and when said second power source and said second load are inductively coupled.
17. (Previously Amended) A dual energy coupling device, comprising:
a first power source operable to provide a first electric signal;
a second power source operable to provide a second electric signal;
a third power source;
a load; and
means for capacitively coupling said third power source and said load when said first power source is providing the first electric signal and said second power source is providing the second electric signal.